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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,798	03/31/2004	Scott A. Belz	1033-AM1001	4972

34456 7590 04/14/2005  
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AUSTIN, TX 78746

EXAMINER

TRAN, QUOC DUC

ART UNIT PAPER NUMBER

2643

DATE MAILED: 04/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/814,798

**Applicant(s)**

BELTZ ET AL.

**Examiner**

Quoc D Tran

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 31 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>3/31/04 &amp; 8/27/04</u> . | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8 and 10-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Pomp et al (6,097,515).

Consider claim 1, Pomp et al teach a system comprising: an automated circuit switchover system embedded within a telephone central office (col. 9 lines 39-50); a technician terminal for use by telephone network operations personnel (col. 11 lines 32-41); a test and control system coupled to the technician terminal and to the automated circuit switchover system within the telephone central office (col. 11 lines 43-54; col. 14 line 60 – col. 15 line 23); and a switchable protection circuit remotely located from the telephone central office and coupled to the telephone central office via a communication link (col. 8 lines 35-39), the switchable protection circuit supporting a plurality of active individual communication lines and an unused spare communication line, each of the active individual communication lines configured to support communication of traffic from end user subscribers supported by the active individual communications lines connected to the switchable protection circuit to the telephone central office (col. 8 lines 39-48), the switchable protection circuit responsive to the test and control system and including logic to respond to a specific command sent from the test and control system to switch a selected one of the plurality of active individual communication lines to the

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unused spare communication line and to activate the spare communication line in response to the specific command to support communications traffic over the spare communication line (col. 11 lines 16-54).

Consider claim 2, Pomp et al teach wherein the special command is sent from the test and control system in response to a technician command processed at the technician terminal (col. 11 lines 16-54).

Consider claim 3, Pomp et al teach wherein the technician command is initiated in response to a subscriber reported problem with one of the plurality of individual communication lines (col. 12 lines 33-45).

Consider claim 4, Pomp et al teach wherein the plurality of individual communication lines are DS1 lines (col. 10 lines 45-48).

Consider claim 5, Pomp et al teach wherein the communication link is a multiplexed T1 line (col. 9 lines 59-67).

Consider claim 6, Pomp et al teach wherein the technician terminal has an interface to enable a user to enter a circuit trouble ticket into a circuit trouble ticket reporting system (col. 20 lines 1-17).

Consider claim 7, Pomp et al teach wherein the special command is a specific sequence of program codes (i.e., control signal or instructions) (11 lines 50-54; col. 18 lines 6-13).

Consider claim 8, Pomp et al teach wherein a command is sent from the test and control system to the automated circuit switchover system to automatically implement a circuit change at the telephone central office that corresponds to the change to the spare communication line made at the remote switchable protection circuit (col. 11 lines 16-31).

Consider claim 10, Pomp et al teach a method of responding to a subscriber communication line problem report (col. 12 lines 18-31) the method comprising: receiving a reported problem associated with an individual subscriber communication line; entering a trouble ticket into a trouble ticket tracking database using an operations terminal; initiating a test of the individual communication line using an automated test system, the automated test system responsive to the operations terminal; determining whether the individual subscriber communication line is supported by a remote switch protection device (col. 20 lines 1-17); sending a program code to the remote switch protection device to request the remote switch protection device to swap the individual subscriber communication line with a spare communication line; sending a switch-to-spare circuit command to a telephone exchange, the telephone exchange including a telephone circuit communicatively coupled to the individual subscriber communication line and to the remote switch protection device, the telephone exchange automatically switching the telephone circuit from the individual subscriber communication line to the spare communication line (col. 11 lines 16-54); and reporting a corrected circuit condition (col. 12 lines 12-17).

Consider claim 11, Pomp et al teach the method further comprising communicating the corrected circuit condition to the subscriber that initiated the problem report (col. 19 lines 39-49).

Consider claim 12, Pomp et al teach wherein an automated circuit switchover system embedded within the telephone exchange performs the step of automatically switching the telephone circuit from the individual subscriber communication line to the spare communication line (col. 11 lines 2-31).

Consider claim 13, Pomp et al teach wherein the automated test system comprises a test and control system, the automated test system coupled to the operations terminal and configured to communicate with the automated circuit switchover system within the telephone exchange (col. 11 lines 43-54; col. 14 line 60 – col. 15 line 23).

Consider claim 14, Pomp et al teach wherein the remote switch protection device includes a switchable protection circuit, the remote switch protection device coupled to the telephone exchange via a communication link, wherein the switchable protection circuit supports a plurality of active individual communication lines and an unused spare communication line, each of the active individual communication lines configured to support communication of traffic from end user subscribers supported by the active individual communications lines connected to the switchable protection circuit and to the telephone exchange (col. 8 lines 35-48).

Consider claim 15, Pomp et al teach wherein the switch protection device includes logic to respond to the program code sent from the automated test system, and where the switch protection device selectively connects one of the plurality of active individual communication lines to the unused spare communication line and activates the spare communication line to support communications traffic over the spare communication line (col. 11 lines 16-54).

Consider claim 16, Pomp et al teach a method of responding to a subscriber communication line problem report (col. 12 lines 18-31) the method comprising: initiating a test of an individual subscriber communication line using an automated test system, the automated test system responsive to an operations terminal trouble ticket report relating to a reported problem associated with the individual subscriber communication line (col. 20 lines 1-17); communicating a program code to a switch protection device supporting the individual

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subscriber communication line, the program code to request the switch protection device to swap the individual subscriber communication line with a spare communication line; communicating a switch-to-spare circuit command to a telephone exchange, the telephone exchange including a telephone circuit communicatively coupled to the individual subscriber communication line and to the switch protection device via a DS1 communications link, the telephone exchange automatically switching the telephone circuit from the individual subscriber communication line to the spare communication line; and reporting a corrected circuit condition for the individual subscriber communication line (col. 10 lines 45-48; col. 11 lines 16-54).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pomp et al (6,097,515) in view of Christensen et al (4,074,072).

Consider claim 9, Pomp et al did not specifically suggest wherein the switchable protection circuit supports seven active lines and one hot spare line. However, Christensen et al suggested such (col. 26 lines 24-32). Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to incorporate the teaching of Christensen et al into view of Pomp et al in order provide network reliability and efficiency.

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***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

6. Any response to this action should be mailed to:

Mail Stop \_\_\_\_ (explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Facsimile responses should be faxed to:

**(703) 872-9306**

Hand-delivered responses should be brought to:

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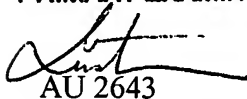
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Quoc Tran** whose telephone number is **(571) 272-7511**. The examiner can normally be reached on M, T, TH and SATURDAY from 8:00 to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Curtis Kuntz**, can be reached on **(571) 272-7499**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600** whose telephone number is **(571) 272-2600**.

**QUOCTRAN**  
**PRIMARY EXAMINER**



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April 11, 2005